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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,651	10/30/2003	Vincent Cedric Colnot	P1985	7795	
24739 CENTRAL CC	24739 7590 09/10/2007 CENTRAL COAST PATENT AGENCY, INC			EXAMINER	
3 HANGAR WAY SUITE D			SUN, SCOTT C		
WATSONVIL	LE, CA 95076		ART UNIT PAPER NUMBER		
			2182		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/696,651	COLNOT, VINCENT CEDRIC			
Office Action Summary	Examiner	Art Unit			
	Scott Sun	2182			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be til vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 10 Au	ugust 2007.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1-11,13-25,27 and 28 is/are pending i 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-11,13-25,27 and 28 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)		·			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Pate			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/10/2007 has been entered.

Response to Arguments

- 2. Applicant's arguments with respect to the prior art rejections have been fully considered but they are not persuasive. Applicant's arguments are summarized as:
 - a. Prior art of record does not teach that the interfaces are "bidirectional".
 - b. Prior art of record does not teach "a modem".
 - c. Prior art of record does not teach amended claim limitation of "a single I/O terminal providing a single connection port on the secure memory device for both of the coumunication interfaces".
- 3. Regarding argument 'a', examiner notes that as applicant also admits, *Atsmon* teaches that the card can be ISO 7816 compliant, meaning the card includes an ISO 7816 interface. *Atsmon* also teaches that the card can include two-way (receive and

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transmit) communication (for example, figure 3). Therefore the ISO 7816 interface is bidirectional. Likewise, the transducer is also shown to have both reception and transmission capabilities (figure 3).

- 4. Regarding argument 'b', examiner notes that as applicant admits, Atsmon teaches transducers for producing a required intensity at an <u>ultrasonic frequency</u> (emphasis added). These are clearly modulations used to facilitate communication between the card and device(s) the card is communicating with (for example, devices shown in figure 1). Applicant teaches modulations in the frequency ranges of 0-20 kHz, while Atsmon teaches using an ultrasonic range from 17-20 kHz (column 9, lines 60-65), but such differences are not present in the claims.
- 5. Regarding argument 'c', examiner notes that Leydier shows that the three communication interfaces (ISO port, USB port, and wireless port) sharing the same (single) I/O terminal (communication interface 190, figure 13). The single I/O terminal provides a single connection port to the processor of the secure memory for all of the communication interfaces (figure 13). This clearly reads on the amended claim language.
- 6. Having responded to each of applicant's arguments, examiner notes that prior art of record still provides a valid ground of rejection as attached below.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 8. Claims 1, 2, 15, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atsmon et al (US Patent #6,607,136) in view of Leydier et al (PG Pub #US 2003/0046554 A1)
- 9. Regarding claim 15, Atsmon discloses a secure memory device (system shown in figure 1) for use with and contained within a smart card with a modern interface comprising circuitry of:

A rewritable memory (memory unit 22, figure 2; column 12, lines 38-42);

A processing unit or a microprocessor (processing unit 21);

An on-chip oscillator (oscillator circuit or RC circuit; column 13, lines 4-11), circuitry of which is contained in the secure memory device; examiner notes that Atsmon teaches both circuits being external. However, both circuits are external to the processor, not to the card. This is evidenced by the fact that Atsmon teaches the type of oscillator used is limited by the size of the card. Atsmon also teaches that the oscillator would be connected to the OSC1/CLKIN pin of the processor (figure 7). Accordingly, examiner asserts that the oscillator is on-chip (on the card).

An ISO 7816 interface (column 25, lines 12, 13);

A one-wire modem interface (transducer; column 11, lines 37-39);

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Characterized in that both communication interfaces are bidirectional (input/output unit 35, figure 3; column 11, lines 36-40); Examiner notes that the I/O unit 35 can both receive and transmit data (therefore bi-directional).

Atsmon does not disclose explicitly that both communication interfaces share the same I/O terminal. However, Leydier discloses a smartcard (figure 13) such that communication interfaces (ISO, USB, Wireless ports) share a single I/O terminal (communication interface 190, paragraph 59) providing a single connection port on the secure memory device for both of the communication devices (figure 13, connection port to processor 169). Teachings of Atsmon and Leydier are from the same field of smartcards, and specifically of multiple communication interface smartcards.

Therefore, it would have been obvious at the time of invention for a person of ordinary skill in the art to combine teachings of Atsmon and Leydier by using a common I/O terminal in the smartcard system of Atsmon for the benefit of converting data between different protocols (paragraph 59).

10. Regarding claim 2, Atsmon further discloses a secure memory of device as in claim 1, exchanging data with a host in the form of a modulated signal by means of a card reader reading the smart card (air, column 15, line 7), the smart card characterized by possessing all processing means required for exchanging data with the card reader (examiner notes that both Atsmon and Leydier teaches that the medium of transmission could be air, i.e. wireless transmission of acoustic signals).

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11. Claims 3-11, 13, 14, 17-25, 27, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Atsmon and Leydier further in view of Saitoh (US Patent # 5,929,414).

12. Regarding claim 3, Atsmon and Leydier combined discloses claim 2, but does not disclose explicitly when a reset input that controls activation of ISO interface and modem interface. However, Saitoh discloses a memory device (figure 1) wherein an ISO interface (contact 55) is active when a reset input is high, and a modem interface (modem 57) is active when the reset input is low (column 5, lines 22-43; lines 59-65). Examiner notes that Saitoh discloses the modem being activated and connected to the CPU when VCC from a contact reader/writer is off. This means that reset input is also low (off) because a contact reader/writer provides a reset ON only when VCC is on.

Teachings of Atsmon, Leydier and Saitoh are from the same field of IC cards, and specifically of communication interface design of IC cards. Therefore, it would have been obvious for a person of ordinary skill in the art at the time of invention to combine teachings of Atsmon, Leydier and Saitoh by using the selector circuitry and logic in the combined IC card system for the benefit of switching between contact and contact-less data transfer in one IC card (column 2, lines 35-38).

13. Regarding claim 4, Atsmon, Leydier and Saitoh combined disclose claim 3, where Saitoh further discloses transmitting a modulated answer to reset to the host when the reset intput is pulled down (column 3, lines 65-68; column 4, lines 1-2). Examiner notes that modem (contact-less interface to reader/writer) also conforms to ISO 7816-3, and therefore must communicate with the reader/writer in the same format.

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This is further evidence by Saitoh's teachings of a reader/writer that communicates with either contact or contactless IC cards (column 8, lines 29-40).

- 14. Regarding claim 5, Atsmon, Leydier and Saitoh combined disclose claim 4, where Saitoh further discloses transmitting the MAR only once, when the card is inserted into the card reader (column 8, lines 29-51). Examiner notes this operation is also defined by ISO standard 7816.
- 15. Regarding claim 6, Atsmon, Leydier and Saitoh combined disclose claim 5, where Saitoh further discloses where the MAR comprises at least three fields, a header, a card number and a random number. Examiner notes these fields are according to ISO standard 7816.
- 16. Regarding claim 7, Atsmon, Leydier and Saitoh combined disclose claim 6, where Saitoh further discloses computing a new random number prior to transmit the MAR. Examiner notes this again is a requirement of ISO standard 7816.
- 17. Regarding claim 8, Atsmon, Leydier and Saitoh combined disclose claim 3, where Atsmon further discloses transmitting data to and receiving data from a PC by means of a card reader plugged into the microphone input and the speaker output of the PC sound card (figure 1; column 31, lines 29-52).
- 18. Regarding claim 9, Atsmon, Leydier and Saitoh combined disclose claim 8, but does not disclose explicitly powered by voltage provided by the microphone input of the sound card. Examiner asserts that it would have been obvious for a person of ordinary skill in the art at the time of invention to provide power to the card using the a source on

the host or card reader because it would eliminate need of a power source on the card, which is further evidenced by teachings of Leydier (paragraph 60).

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- 19. Regarding claim 10, Atsmon, Leydier and Saitoh combined disclose claim 3, and Atsmon further discloses transmitting data to and receiving data from an IVR server by means of a card reader plugged into the telephone line (column 10, lines 60-65; column 20, lines 1-18).
- 20. Regarding claim 11, Atsmon, Leydier and Saitoh combined disclose claim 10, but does not disclose explicitly powered by voltage provided by the telephone line. Examiner asserts that it would have been obvious for a person of ordinary skill in the art at the time of invention to provide power to the card using the telephone line because it would eliminate the need of a power source on the card (also see the rejection of claim 9).
- 21. Regarding claim 13, Atsmon, Leydier and Saitoh combined disclose claim 2, but does not disclose explicitly powered by a battery cell within the card reader. Examiner asserts that it would have been obvious for a person of ordinary skill in the art at the time of invention to provide power to the card using battery cell within the card reader because it would eliminate the need of a power source on the card (also see the rejection of claim 9).
- 22. Regarding claim 14, Atsmon, Leydier and Saitoh combined disclose claim 3, where Saitoh further discloses where Vcc is connected to an ISO contact C1, Rst to an ISO contact C2, Clk to an ISO contact C3, Gnd to an ISO contact c5, and I/O to an ISO

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contact C7. Examiner notes that these connections are all part of the ISO 7816 standard.

23. Claims 17-25, 27, 28 are substantially similar to claim 3-14. The same rejection is applied.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Sun whose telephone number is (571) 272-2675. The examiner can normally be reached on M-F, 10:30am-7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim N. Huynh can be reached on (571) 272-4147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SUPERVISORY PATENT EXAMINER